

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A focal length measuring device comprising:
a light source unit for generating [[a]] collimated light;
a light deflecting unit for deflecting the collimated light so that the collimated light intersects an optical axis at an angle and the collimated light is emitted; and
a light receiving unit which is disposed opposite to the light source unit so as to sandwich the light deflecting unit; [[and]]
wherein the light receiving unit is disposed near a rear focal plane of an optical element to be tested; and
the light receiving unit outputs [[an]] information for calculating a focal length of the optical element to be tested.
2. (Original) A focal length measuring device according to Claim 1 wherein the light deflecting unit is disposed near a front focal plane of the optical element to be tested.
3. (Currently Amended) A focal length measuring device comprising:
a light source unit for generating [[a]] collimated light;
a light deflecting unit for deflecting the collimated light so that the collimated light intersects an optical axis at an angle and the collimated light is emitted; and
a light receiving unit which is disposed opposite to the light source unit so as to sandwich the light deflecting unit; [[and]]
wherein the light deflecting unit is disposed near a front focal plane of the optical element to be tested; and
the light receiving unit outputs [[a]] position information for calculating [[the]] a focal length of the optical element to be tested.
4. (Currently Amended) A focal length measuring device according to any one of Claims 1 or 3 further comprising:
a calculating unit

wherein the calculating unit is provided with a calculating process for calculating a focal length of the optical element to be tested according to [[the]] position information.

5. (Original) A focal length measuring device according to Claim 4 wherein the position information includes a position information based on a first light under condition that the first light reaches at the light receiving unit after the first light is deflected to a first direction by the light deflecting unit.
6. (Original) A focal length measuring device according to Claim 5 wherein the position information includes a position information based on a position of the light which reaches at the light receiving unit under condition that the light deflecting unit is not provided.
7. (Original) A focal length measuring device according to Claim 5 wherein the position information includes a position information based on a second light under condition that the first light reaches the light receiving unit after the first light is deflected to a second direction which is different from the first direction by the light deflecting unit.
8. (Currently Amended) A focal length measuring device according to ~~Claim 1 wherein comprising:~~
a light source unit for generating collimated light;
a light deflecting unit for deflecting the collimated light; and
a light receiving unit which is disposed opposite to the light source unit so as to sandwich the light deflecting unit,
wherein the light receiving unit is disposed near a rear focal plane of an optical element to be tested,
the light receiving unit outputs an information for calculating a focal length of the optical element to be tested, and
the light deflecting unit is a diffraction grating.
9. (Currently Amended) A focal length measuring device according to Claim 1 further comprising:

a supporting unit for supporting the optical element to be tested,
wherein the supporting unit is disposed between the light deflecting unit and the light receiving [[n]] unit.

10. (Original) A focal length measuring device according to Claim 1 further comprising:
a double telecentric optical system,
wherein the double telecentric optical system is disposed between the supporting unit and the light receiving unit.
11. (Original) A focal length measuring device according to Claim 1 wherein
the light receiving unit is an image-pickup element.
12. (Currently Amended) A focal length measuring device according to Claim 1 further comprising:
a moving unit,
wherein the moving unit ~~can move~~ moves the light receiving unit in a plane orthogonal to an optical axis of an optical path formed between the light source unit and the light receiving unit.
13. (Original) A focal length measuring device according to Claim 1 wherein
the light receiving unit is provided with a pin hole.
14. (Original) A focal length measuring device according to Claim 13 wherein
the light receiving unit is provided with a light receiving element and at least a lens,
and
the lens is disposed such that the light receiving element and the pin hole conjugates.
15. (Currently Amended) A focal length measuring device according to Claim 1 wherein
a deflection angle θ ($^{\circ}$) [[by]] of the light deflecting unit satisfies a condition
[[such as]] of $\sin \theta < 0.1$.
16. (Original) A focal length measuring device according to Claim 1 wherein
the light source unit includes a collimating optical system.